

Notice of Allowability

Application No.

10/710,401

Applicant(s)

HUANG, MIN-LUNG

Examiner

Art Unit

Chris C. Chu

2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/3/05.
2. ☒ The allowed claim(s) is/are 1 - 11.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

Tom Thomas
TOM THOMAS
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Belinda Lee on October 12, 2005.

The application has been amended as follows:

In the *specification*:

(A) In page 2, under section 0006.

- a) Line 8, after "circuit pattern" insert --116--.
- b) Line 16, after "surface of" delete [the] and insert --a--.

(B) In page 3, line 1.

- a) Line 17, after "pad" delete [112] and insert --110--.

REASONS FOR ALLOWANCE

3. Claims 1 – 11 are allowed.

4. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or suggest, either singularly or in combination, at least a passivation layer, covering a chip surface, wherein the passivation has an opening to expose a bonding pad, wherein a top-view profile of the opening is composed of a straight line or a curving line and an arc connecting to two ends of the straight line or the curving line and the arc is segment of a circle or an ellipse, and the straight line or the curving line is adjacent to a connection terminal between a transmission line and the bonding pad. Harada et al. (U. S. Pat. No. 6,417,575) teaches a passivation layer, covering a chip surface, wherein the passivation has an opening to expose a bonding pad, wherein a top-view profile of the opening is composed of a straight line and an arc, Kudo (JP 55-138,872) teaches a passivation layer, covering a chip surface, wherein the passivation has an opening to expose a bonding pad, wherein a top-view profile of the opening is composed of an arc and Barrow (U. S. Pat. No. 5,875,102) teaches a passivation layer, covering a wiring board surface, wherein the passivation has an opening to expose a bonding pad, wherein a top-view profile of the opening is composed of a curving line and an arc. However, Harada et al., Kudo and Barrow do not teach at least a passivation layer, covering a chip surface, wherein the passivation has an opening to expose a bonding pad, wherein a top-view profile of the opening is composed of a straight line or a curving line and an arc connecting to two ends of the straight line or the curving line and the arc is segment of a circle or an ellipse, and the straight line or the curving line is adjacent to a connection terminal between a transmission line and the bonding pad as set forth in claims 1 and 6.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chris C. Chu whose telephone number is 571-272-1724. The examiner can normally be reached on 11:30 - 8:00.

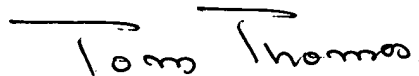
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on 517-272-1664. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chris C. Chu
Examiner
Art Unit 2815

c.c.
Wednesday, October 12, 2005



TOM THOMAS
SUPERVISORY PATENT EXAMINER